

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

pplicants:

STUYVER, et al.

Serial No.:

10/008,140

Filed:

OCTOBER 18, 2001

Title:

Simultaneous Quantification of Nucleic Acids in Diseased Cells

Assistant Commissioner for Patents

Washington, DC 20231

March 22, 2002

Transmittal of Information Disclosure Statement

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, Applicants cite the publications listed on the accompanying PTO-1449. Copies of all listed references are enclosed. The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under the applicable statutes, Rules of Practice in patent cases, or otherwise.

If the Examiner determines a fee is required, the Commissioner is authorized to charge any requisite fees associated with this paper to Deposit Account No. 11-0980.

Respectfully submitted,

Kosephine Young

Reg. No. 48,308

KING & SPALDING 191 Peachtree Street Atlanta, GA 30303 404-572-5012 (Telephone) 404-572-5145 (Facsimile)

INFORMATION DISCLOSURE STATEMENT Docket No. 08841.105021 (PHAR 1040U) 10/008,140

CERTIFICATE OF MAILING

I hereby certify that this Information Disclosure Statement, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date shown below with sufficient postage as Express Mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Kristin Chrudimsky

Date: March 22, 2002

Please type a plus sign (+) inside this box

MAR 2 5 2007

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitut	e for form 1449A/PTO	6	Tempore		Complete if Known
				Application Number	10/008,140
	ORMATION D			Filing Date	OCTOBER 18, 2001
STA	TEMENT BY	APPLI	ICANT	First Named Inventor	LIEVEN STUYVER, et al.
	,		,	Group Art Unit	
I	(use as many sheets as necessary)			Examiner Name	
Sheet	6	of	7	Attorney Docket Number	08841.105021 (PHAR 1040U)

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T^6
	CA	OBERST, R.D., et al., PCR-Based DNA Amplification and Presumptive Detection of <i>Escherichia coli</i> O157:H7 with an Internal Fluorogenic Probe and the 5' Nuclease (TaqMan) Assay, <i>Applied and Environmental Microbiology</i> , Sept. 1998, 64:3389-3396.	
	СВ	ОНУАЅНІКІ, J.H., et al. Use of Real-Time PCR to Monitor Human Herpesvirus 6 Reactivation After Allogeneic Bone Marrow Transplantation, <i>Int. J. Mol. Med.</i> , 6:427-432.	
	CC	PE APPLIED BIOSYSTEMS, User Bulletin #2 ABI PRISM 7700 Sequence Detection System, December 11 1997, 1-36.	
	CD	PEVENSTEIN, S. R., et al., Quantitation of Latent Varicella-Zoster Virus And Herpes Simplex Virus Genomes in Human Trigeminal Ganglia, <i>J. Virol.</i> , Dec. 1999, 73:10514-10548.	
	CE	RATGE, D., et al., High-Speed Detection of Blood-Borne Hepatitis C Virus RNA by Single-Tube Real-Time Fluorescence Reverse Transcription-PCR With the LightCycler, <i>Clin. Chem.</i> , 2000, 46:1987-1989.	
	CF	SAHA, B.K., et al. Quantitation of HIV-1 by Real-Time PCR With a Unique Fluorogenic Probe, <i>J. Virol. Methods</i> , 2001, 93:33-42.	
	CG	SAULEDA, S., et al., Profiles of GBV-C/hepatitis G virus Markers in Patients Coinfected With Hepatitis C Virus, <i>J. Med. Virol.</i> , 1999, 59:45-51.	
	СН	SCHUTTEN, M., et al., Development of a Real-Time Quantitative RT-PCR for the Detection of HIV-2 RNA in Plasma, J. Virol. Methods, 2000, 88:81-87.	
	CI	SOKOL, D.L., et al., Real Time Detection of DNA·RNA Hybridization in Living Cells, <i>Proc. Natl. Acad. Sci. USA</i> , Sept. 1998, 95:11538-11543.	
	CJ	SURYANARAYANA, K., et al., Plasma SIV RNA Viral Load Determination by Real- Time Quantification of Product Generation in Reverse Transcriptase-Polymerase Chain Reaction, <i>AIDS Res. Hum. Retroviruses</i> , 1998, 14:183-189.	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-00) Approved for usc through 10/31/2002. OMB 0651-0031

Please type a plus sign (+) inside this box $\rightarrow \boxplus$

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE nder the Paperwork Reduction Act 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute	e for form 1449A/PTO		The state of	Complete if Known			
				Application Number	10/008,140		
	ORMATION D			Filing Date	OCTOBER 18, 2001		
STATEMENT BY APPLICANT			ICANT	First Named Inventor	LIEVEN STUYVER, et al.		
				Group Art Unit			
(use as many sheets as necessary)			<i>'Y)</i>	Examiner Name			
Sheet	7	of	7	Attorney Docket Number	08841.105021 (PHAR 1040U)		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	CK	SWAN, D.C., et al. A Sensitive, Type-Specific, Fluorogenic Probe Assay for Detection of Human Papillomavirus DNA, <i>J. Clin. Microbiol.</i> , 1997, 35:886-891.	
	CL	TAKEUCHI, T., et al. Real-Time Detection System for Quantification of Hepatitis C Virus Genome, <i>Gastroenterology</i> , 1999, 116:636-642.	
	CM	TANAKA, N., et al. Quantitative Analysis of Cytomegalovirus Load Using a Real-Time PCR Assay., <i>J. Med. Virol.</i> , 2000, 60:455-462.	
	CN	TÄPP, I., et al., Homogenous Scoring of Single-Nucleotide Pollymorphisms: Comparison of the 5'-Nuclease TaqMan® Assay and Molecular Beacon Probes, <i>BioTechniques</i> , 2000, 28:732-738.	
	СО	TYAGI, S., et al., Multicolor Molecular Beacons For Allele Discrimination, <i>Nature Biotechnology</i> , Jan. 1998, 16:49-53.	
	СР	TYAGI, S., et al., Molecular Beacons: Probes That Fluoresce Upon Hybridization, <i>Nat. Biotechnol.</i> , 1996, 14:303-308.	
	CQ	VAN ELDEN, L.J.R., et al., Simultaneous Detection of Influenza Viruses A and B Using Real-Time Quantitative PCR, <i>J. Clin. Microbiol.</i> , Jan. 2001, 39:196-200.	
	CR	VET, J.A.M., et al., Multiplex Detection of Four Pathogenic Retroviruses Using Molecular Beacons, <i>Proc. Natl. Acad. Sci. USA</i> , May 1999, 96:6394-6399.	
	CS	WAGNER, H. J., et al., Real-Time Polymerase Chain Reaction (RQ-PCR) for the Monitoring of Epstein-Barr Virus (EBV) Load in Peripheral Blood Mononuclear Cells, <i>Klin. Padiatr.</i> , 2000, 212:206-210.	
	CT	WALKER, N.J., et al., Real-Time And Quantitative PCR: Applications to Mechanism-Based Toxicology, <i>J. Biochem. Mol. Toxicol.</i> , 2001, 15:121-127.	
	CU	WHITE, I.E., et al. Quantitation of Cell-Free and Cell-Associated Kaposi's Sarcoma-Associated Herpesvirus DNA by Real-Time PCR, <i>J. Clin. Microbiol.</i> , May 2000, 38:1992-1995.	

		
Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box

MAR 2 6 2002

PTO/SB/08A (08-00) Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduced Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control numbe

	Order the Paperwork Reduction Act of 1993, no persons are required to respond to a conection of information unless it contains a valid Olyl B control number.							
Substitute	e for form 1449A/PTO	7	PRANCISCO	Complete if Known				
			•	Application Number	10/008,140			
	DRMATION D		_	Filing Date	OCTOBER 18, 2001			
STATEMENT BY APPLICANT			CANT	First Named Inventor	LIEVEN STUYVER, et al.			
(use as many sheets as necessary)				Group Art Unit				
(100 as many sites as necessary)				Examiner Name				
Sheet	4	of	7	Attorney Docket Number	08841.105021 (PHAR 1040U)			

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, scrial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	BG	KUIMELIS, R. G., et al., Structural Analogues of TaqMan Probes for Real-Time Quantitative PCR. <i>Nucleic Acids Symp. Ser. No. 37</i> , 1997, 37:255-256.	
	ВН	LALLEMAND, F., et al., Quantitative Analysis of Human Herpesvirus 8 Viral Load Using a Real-Time PCR Assay, <i>J. Clin. Microbiol.</i> April 2000, 38:1404-1408.	
	BI	LEONE, G., et al., Molecular Beacon Probes Combined With Amplification by NASBA Enable Homogenous, Real-Time Detection of RNA, <i>Nucleic Acids Research</i> , 1998, 26:2150-2155.	
	ВЈ	LEWIN, S. R., et al. Use of Real-Time PCR and Molecular Beacons to Detect Virus Replication in Human Immunodeficiency Virus Type 1-Infected Individuals on Prolonged Effective Antiretroviral Therapy. <i>J. Virol.</i> , July 1999, 73:6099-6103.	
	BK	LIVAK, K.J., et al., Oligonucleotides With Fluorescent Dyes at Opposite Ends Provide a Quenched Probe System Useful for Detecting PCR Product and Nucleic Acid Hybridization, <i>PCR Methods</i> , 1995, 4:357-362.	
	BL	LOCATELLI, G., et al. Real-Time Quantitative PCR for Human Herpesvirus 6 DNA. J. Clin. Microbiol. Nov. 2000, 38:4042-4048.	
	BM	LOCKEY, C., et al., Real-Time Fluorescence Detection of a Single DNA Molecule, <i>Biotechniques</i> , May 1998, 24:744-746.	
	BN	MACHIDA, U., et al., Real-Time Automated PCR For Early Diagnosis and Monitoring of Cytomegalovirus Infection After Bone Marrow Transplantation, July 2000, <i>J. Clin. Microbiol.</i> , 38:2536-2542.	
	ВО	MARCUCCI, G., et al. Detection of Minimal Residual Disease in Patients With AML1/ETO-Associated Acute Myeloid Leukemia Using a Novel Quantitative Reverse Transcription Polymerase Chain Reaction Assay, <i>Leukemia</i> , 1998, 12:1482-1489.	
	BP	MARRAS, S.A.E., et al., Multiplex Detection of Single-Nucleotide Variations Using Molecular Beacons, <i>Genetic Analysis: Biomolecular Engineering</i> , 1999, 14:151-156.	

Examiner	Date	
~ :	Considered	}
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box $\longrightarrow \coprod$ MAR 2 6 2002

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction act of 1995, no persong are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute	e for form 1449A/PTO		PANENTAL	Complete if Known			
			, , , , ,	Application Number	10/008,140		
	DRMATION D			Filing Date	OCTOBER 18, 2001		
STATEMENT BY APPLICANT				First Named Inventor	LIEVEN STUYVER, et al.		
				Group Art Unit			
(use as many sheets as necessary)			ry) 	Examiner Name			
Sheet	2	of	7	Attorney Docket Number	08841.105021 (PHAR 1040U)		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T^6
	AK	CANE, P.A., et al. Use of real-time PCR and fluorimetry to detect lamivudine	
		resistance-associated mutations in hepatitis B virus., Antimicrobial Agents and Chemotherapy. July 1999, 43:1600-1608.	
	AL	CUBIE, H.A., et al. Rapid real time PCR to distinguish between high risk human papillomavirus types 16 and 18. <i>Mol Pathol</i> . 2001, 54:24-29.	
	AM	DE KOK J.B., Hendriks JCM, van Solinge WW, Willems HL, Mensink EJ, Swinkels DW. Use of real-time quantitative PCR to compare DNA isolation methods. <i>Clin Chem</i> 1998;44:2201-2204.	
	AN	DÉSIRÉ, N., et al. Quantification of human immunodeficiency virus type 1 proviral load by a TaqMan real-time PCR assay. <i>J Clin Microbiol</i> . 2001, 39:1303-1310.	
	AO	ENGER, L., et al. Cloning and Characterization of a Complex DNA Fingerprinting Probe for <i>Candida parapsilosis</i> . <i>J. Clin. Microbiol</i> . Feb. 2001, 39:658-669.	
	AP	GAULT, E., et al. Quantification of Human Cytomegalovirus DNA by Real-Time PCR. <i>J Clin Microbiol.</i> Feb. 2001, 39:772-775.	
	AQ	GELMINI, S., et al. Quantitative polymerase chain reaction-based homogeneous assay with fluorogenic probes to measure <i>c-erb</i> B-2 oncogene amplification. <i>Clin Chem</i> 1997, 43:752-758.	
	AR	GERARD, C.J., et al. Improved Quantitation of Minimal Residual Disease in Multiple Myeloma Using Real-Time Polymerase Chain Reaction and Plasmid-DNA Complementarity Determining Region III Standards. <i>Cancer Res</i> Sept. 1998; 58:3957-3964.	
	AS	GIBSON, U.E.M., et al. A Novel Method For Real-Time Quantitative RT-PCR. <i>Genome Res</i> 1996, 6:995-1001.	
	AT	GIESENDORF, B.A.J., et al. Molecular Beacons: A New Approach For Semiautomated Mutation Analysis. <i>Clin. Chem.</i> 1998, 44:482-486.	

Examiner	Date	
Signature	 Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the scrial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-00) Approved for use through 10/31/2002. OMB 0651-0031

Please type a plus sign (+) inside this box $\longrightarrow \coprod_{\mathbf{Z}}$

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

pder the Paperwork Reduction val of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sheet 3 of 7 Application Number Complete if Known Application Number 10/008,140 Filing Date OCTOBER 18, 2001 First Named Inventor LIEVEN STUYVER, et al. Group Art Unit Examiner Name Application Number 10/008,140 Filing Date OCTOBER 18, 2001 First Named Inventor LIEVEN STUYVER, et al. Group Art Unit Examiner Name O8841.105021 (PHAR 1040U)		Under the Paperwor	k Reduction	or 1995, no persons a	he required to respond to a concerto	n of information unless it contains a valid OMB control number.		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Filing Date OCTOBER 18, 2001 First Named Inventor LIEVEN STUYVER, et al. Group Art Unit Examiner Name	Substit	ute for form 1449A/PTO		MADENAGA	Complete if Known			
STATEMENT BY APPLICANT First Named Inventor Group Art Unit Examiner Name Attorney Pocket Number OSSA1 105021 (BUAR 10401)				-	Application Number	10/008,140		
(use as many sheets as necessary) Group Art Unit Examiner Name Attorney Poycket Number 09941 105021 (BUAD 10401)					Filing Date	OCTOBER 18, 2001		
(use as many sheets as necessary) Examiner Name Attorney Powlet Number 09941 105021 (DIJAD 10401)	STA	ATEMENT BY	APPL	CANT	First Named Inventor	LIEVEN STUYVER, et al.		
Examiner Name Attorney Doylet Number 09941 105021 (DITAD 10401D)		(v. v. go many abauta	de maaansas	a.i	Group Art Unit			
Sheet 3 of 7 Attorney Docket Number 08841.105021 (PHAR 1040U)	(use as many sneets as necessary)				Examiner Name			
	Sheet	3	of	7	Attorney Docket Number	08841.105021 (PHAR 1040U)		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	_			
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	AU	GRUBER, F., et al. Quantitation of Viral DNA By Real-Time PCR Applying Duplex Amplification, Internal Standardization, and Two-Color Fluorescence Detection. <i>Appl Environ Microbiol.</i> 2001, 67:2837-2839.				
	AV	HEID, C.A., et al. Real-Time Quantitative PCR. Genome Research, 1996; 6:986-994.				
	AW	HOLLAND, P.M., et al. Detection of Specific Polymerase Chain Reaction Product By Utilizing the 5'-3' Exonuclease Activity of Thermus Aquaticus DNA Polymerase. <i>Proc Natl Acad Sci USA</i> , 1991;88:7276-7280.				
	AX	JABS, W. J., et al., Normalized Quantification by Real-Time Pcr of Epstein-Barr Virus Load in Patients at Risk for Posttransplant Lymphoproliferative Disorders. <i>J Clin Microbiol</i> , 2001, 39:564-569.				
	AY	JOSEFSSON, A., et al., Detection and Quantitation of Human Papillomavirus by Using the Fluorescent 5' Exonuclease Assay, <i>J. Clin. Microbiol.</i> , March 1999, 37:490-496.				
	AZ	Ju, J., et al. Fluorescence Energy Transfer Dye-Labeled Primers for DNA Sequencing and Analysis, <i>Proc. Natl. Acad. Sci. USA</i> , May 1995, 92:4347-4351.				
	BA	KATO, T., et al. Development of a TT Virus DNA Quantification System Using Real- Time Detection PCR. J. Clin. Microbiol., Jan. 2000, 38:94-98.				
	BB	KEARNS, A. M., et al. Development and Evaluation of a Real-Time Quantitative PCR for the Detection of Human Cytomegalovirus, <i>J. Virol. Methods</i> , 2001, 95:121-131.				
<u> </u>	BC	KESSLER, H. H., et al. Detection of Herpes Simplex Virus DNA by Real-Time PCR. <i>J. Clin. Microbiol.</i> , 2000, 38:2638-2642.				
	BD	KIMURA, H., et al. Quantitative Analysis of Epstein-Barr Virus Load by Using a Real-Time PCR Assay, <i>J. Clin. Microbiol.</i> , Jan. 1999, 37:132-136.				
	BE	KOMURIAN-PRADEL, F., et al., Quantitation of HCV RNA Using Real-Time PCR and Fluorimetry, <i>J. Virol. Methods</i> , 2001, 95:111-119.				
	BF	KOSTRIKIS, L.G., et al., Spectral Genotyping of Human Alleles, <i>Science</i> , Feb. 1998, 279:1228-1229.				

	المتعلق المتعارض والمتعارض		
Examiner		Date	
Signature		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the scrial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box

PTO/SB/08A (08-00) Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/PTO **Application Number** 10/008,140 INFORMATION DISCLOSURE Filing Date **OCTOBER 18, 2001** STATEMENT BY APPLICANT First Named Inventor LIEVEN STUYVER, et al. Group Art Unit (use as many sheets as necessary) Examiner Name Attorney Docket Number 08841.105021 (PHAR 1040U) 7 Shcet

	U.S. PATENT DOCUMENTS								
Examiner Initials *	Cite No. 1	U.S. Patent Do Number	Coument Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
	AA	5,843,640		PATTERSON, et al.	12-01-1998				
	AB	6,210,875		PATTERSON, et al.	04-03-2001				
	AC	6,235,504		ZHANG, et al.	05-22-2001				

	FOREIGN PATENT DOCUMENTS									
Examiner Initials *	Cite No. 1	Office 3	oreign Patent Do Number	Cument Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T^6		
	AD	WO	00/44936		Commissariat a l'energie	08-03-2000				
	AE	WO	00/68436		BOSBACH, et al.	11-16-2000				
	AF	WO	01/66799		SHAFFER, et al.	09-13-2001				

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
	AG	ABE, A., et al. Quantitation of hepatitis B virus genomic DNA by real-time detection PCR. <i>J Clin Microbiol</i> . Sept. 1999, 37:2899-2903.	
	AH	ABERHAM, C., et al. A quantitative, internally controlled real-time PCR Assay for the detection of parvovirus B19 DNA. <i>J Virol Methods</i> . 2001, 92:183-191.	
AI BISSET, L. R., et al. Quantification of in vitro retroviral replication using a one-real-time RT-PCR system incorporating direct RNA preparation. <i>J Virol Methol</i> 2001, 91:149-155.			
	AJ	BONNET, G., et al. Thermodynamic basis of the enhanced specificity of structured DNA probes, <i>Proc. Natl. Acad. Sci.USA</i> , May 1999, 96:6171-6176.	}

Examiner Signature	Date Considered	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box —

5

Sheet

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

08841.105021 (PHAR 1040U)

Under the Paperwork Reduction Act of 1995, no p	ersons are required to respond to a collec-	ction of information unless it contains a valid OMB control number.
Substitute for form 1449A/PTO	24. C	Complete if Known
	Application Number	10/008,140
INFORMATION DISCLOSURE	Filing Date	OCTOBER 18, 2001
STATEMENT BY APPLICANT	First Named Inventor	LIEVEN STUYVER, et al.
	Group Art Unit	
(use as many sheets as necessary)	Examiner Name	

Attorney Docket Number

7

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	BQ	MARTELL, M., et al. High-Throughput Real-Time Reverse Transcription-PCR Quantitation of Hepatitis C Virus RNA. <i>J. Clin. Microbiol.</i> , Feb. 1999, 37:327-332.	
	BR	MATSUO, T., In Situ Visualization of Messenger RNA for Basic Fibroblast Growth Factor in Living Cells, <i>Biochimica et Biophysica Acta</i> , 1998, 1379:178-184	
	BS	MCGOLDRICK, A., et al, A Novel Approach To The Detection of Classical Swine Fever Virus by RT-PCR With a Fluorogenic Probe (TaqMan), <i>J. Virol. Methods</i> , 1998, 72:125-135.	
	ВТ	MORRIS, T., et al. Rapid Reverse Transcription-PCR Detection of Hepatitis C Virus RNA in Serum by Using the TaqMan Fluorogenic Detection System, <i>J. Clin. Microbiol.</i> , Dec. 1996, 34:2933-2936.	
	BU	NAJIOULLAH, F., et al., Development of a Real-Time PCR Procedure Including an Internal Control for the Measurement of HCMV Viral Load. <i>J. Virol. Methods</i> , 2001, 92:55-64.	
	BV	NAZARENKO, I.A., et al., A Closed Tube Format for Amplification and Detection of DNA Based on Energy Transfer, <i>Nucleic Acids Research</i> , 1997, 25:2516-2521.	
	BW	NICOLL, S., et al., Detection of Herpes Viruses in Clinical Samples Using Real-Time PCR, J. Virol. Methods, 2001, 96:25-31.	
	BX	NIESTERS, H.G.M., et al., Development of a Real-Time Quantitative Assay for Detection of Epstein-Barr Virus, <i>J. Clin. Microbiol.</i> , Feb. 2000, 38:712-715.	
	BY	NITSCHE, A., et al., Detection of Human Cytomegalovirus DNA by Real-Time Quantitative PCR, <i>J. Clin. Microbiol</i> , July 2000, 38:2734-2737.	
	BZ	Nuovo, G.J., et al., In Situ Amplification Using Universal Energy Transfer-Labeled Primers, J. Histochem. & Cytochem., 1999, 43:273-279.	

	المرافقة التناقب المرافقة المرافقة المرافق والمرافق والمرافق والمرافق والمرافق والمرافق والمرافق والمرافق والمرافق		
Examiner		Date	
Signature		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.